

SHARED MULTI-CHANNEL PARALLEL OPTICAL INTERFACE

ABSTRACT OF THE DISCLOSURE

- 5 An optical communication method and system that features concurrently refracting and filtering, employing a holographic transform function, optical energy to impinge upon an optical detector with unwanted characteristics of the optical energy being removed. To that end, the system includes a source of optical energy to direct optical energy along a path, an optical detector disposed in the path, and an optical
- 10 apparatus. The optical apparatus includes a lens having an arcuate surface and a holographic transform function recorded throughout the volume of the lens.

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